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NOTICE OF ALLOWANCE AND FEE(S) DUE

62574 7590

05/15/2009

EXAMINER TRANSPORT

PAPER NUMBER

Jason H. Vick Sheridan Ross, PC Suite # 1200 1560 Broadway

Denver, CO 80202

TRAN, KHANH C

ART UNIT

DATE MAILED: 05/15/2009

	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
•	10/619,691	07/16/2003	David M. Krinsky	5550-2-CON2	7134

TITLE OF INVENTION: SYSTEMS AND METHODS FOR ESTABLISHING A DIAGNOSTIC TRANSMISSION MODE AND COMMUNICATING OVER THE SAME

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	08/17/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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appropriate. All further ndicated unless correct naintenance fee notifica	ed below or directed oth	ng the Patent, advance on nerwise in Block 1, by (a	rders and notification of many specifying a new corresponding to the cor	naintenance fees will pondence address; an	be mailed to the current nd/or (b) indicating a sepa	correspondence address as arate "FEE ADDRESS" for
CURRENT CORRESPOND	ENCE ADDRESS (Note: Use Bl	ock 1 for any change of address)	Fee(s) Transmittal. This c rs. Each additional p	certificate cannot be used f	or domestic mailings of the for any other accompanying nt or formal drawing, must
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Jason H. Vick Sheridan Ross, I Suite # 1200			I her State addr trans	eby certify that this less Postal Service with	icate of Mailing or Trans Fee(s) Transmittal is being a sufficient postage for fir- ttop ISSUE FEE address 0 (571) 273-2885, on the d	g deposited with the United st class mail in an envelope above, or being facsimile ate indicated below.
1560 Broadway Denver, CO 802						(Depositor's name)
						(Signature)
						(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	A	TTORNEY DOCKET NO.	CONFIRMATION NO.
10/619,691	07/16/2003	•	David M. Krinsky	•	5550-2-CON2	7134
OVER THE SAME			ISHING A DIAGNOSTIC			
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE F	EE TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	08/17/2009
EXAM	MINER	ART UNIT	CLASS-SUBCLASS			
TRAN, K	CHANH C	2611	375-222000			
CFR 1.363). Change of corresp Address form PTO/SI "Fee Address" ind PTO/SB/47; Rev 03-(Number is required. ASSIGNEE NAME A PLEASE NOTE: Un	ND RESIDENCE DATA less an assignee is ident th in 37 CFR 3.11. Comp	nge of Correspondence "Indication form ted. Use of a Customer A TO BE PRINTED ON This ified below, no assignee				
lease check the appropr	riate assignee category or	categories (will not be pr	rinted on the patent): \Box	Individual 🖵 Corp	oration or other private gro	oup entity Government
	are submitted: No small entity discount p # of Copies	permitted)	4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) A check is enclosed. Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).			
_ ` .	ntus (from status indicated as SMALL ENTITY statu	· · · · · · · · · · · · · · · · · · ·	☐ b. Applicant is no lone	ger claiming SMALL	ENTITY status. See 37 C	FR 1.27(g)(2).
NOTE: The Issue Fee an	d Publication Fee (if req		d from anyone other than th	-		ne assignee or other party in
j				Date		
Typed or printed nam	ne					
n application. Confiden	itiality is governed by 35	U.S.C. 122 and 37 CFR	1.14. This collection is esti	etain a benefit by the imated to take 12 mir	public which is to file (and utes to complete, including	I by the USPTO to process) g gathering, preparing, and me you require to complete artment of Commerce, P.O.

submitting the completed application form to the USPTO. Time will vary depending upon the incivious case. Any comments on the amount of this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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10/619,691		07/16/2003	David M. Krinsky	5550-2-CON2	7134	
62574	759	0 05/15/2009		EXAM	INER	
Jason H. Vick				TRAN, KHANH C		
Sheridan Ros				ART UNIT	PAPER NUMBER	
Suite # 1200 1560 Broadw Denver, CO 8	ay			2611 DATE MAILED: 05/15/200	9	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 645 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 645 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)				
	10/619,691	KRINSKY ET AL.				
Notice of Allowability	Examiner	Art Unit				
	KHANH C. TRAN	2611				
	KHANH C. IRAN	2011				
The MAILING DATE of this communication appeal all claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED or other appropriate comm IGHTS . This application is	n this application. If not included nunication will be mailed in due course.				
1. X This communication is responsive to the Amendment filed	<u>on 2/26/2009</u> .					
2. The allowed claim(s) is/are 44-83 and 85, which have been	n renumbered as set forth i	n the Office action.				
 3. ☐ Acknowledgment is made of a claim for foreign priority une a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 	e been received.	•				
2. Certified copies of the priority documents have	• • • • • • • • • • • • • • • • • • • •					
Copies of the certified copies of the priority do	cuments have been receive	ed in this national stage application fron	n the			
International Bureau (PCT Rule 17.2(a)).						
* Certified copies not received:						
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		e a reply complying with the requireme	nts			
4. A SUBSTITUTE OATH OR DECLARATION must be subminformal PATENT APPLICATION (PTO-152) which give			OF			
5. CORRECTED DRAWINGS (as "replacement sheets") must	st be submitted.					
(a) \square including changes required by the Notice of Draftspers	son's Patent Drawing Revie	w (PTO-948) attached				
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date	•					
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date						
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			f			
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT			i.			
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. ☐ Notice of I	nformal Patent Application				
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview S	Summary (PTO-413),				
3. Information Disclosure Statements (PTO/SB/08),	Paper No 7. ⊠ Examiner's	./Mail Dates Amendment/Comment				
Paper No./Mail Date 4.	8. 🛛 Examiner's	s Statement of Reasons for Allowance				
of Biological Material	9. 🔲 Other	<u>_</u> .				
/KHANH C. TRAN/						
Primary Examiner, Art Unit 2611						

Art Unit: 2611

1. The Amendment filed on 2/26/2009 has been entered. Claims 44-83 and 85 are still pending in this Office action.

2. Claims 44, 54, 64, 74, 45, 55, 65, 75, 46, 56, 66, 76, 47, 57, 67, 77, 48, 58, 68, 49, 59, 69, 78, 50, 60, 70, 79, 51, 61, 71, 80, 52, 62, 72, 81, 53, 63, 73 and 82-83 have been renumbered as claims 1-41, respectively.

EXAMINER'S AMENDMENT

3. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Applicants' Attorney Jason H. Vick, Registration No. 45,285 on 5/7/2009.

Regarding claim 82, in line 4, "associating" has been changed to -- associating, at said transceiver, --.

Response to Arguments

Art Unit: 2611

4. Applicant's arguments, see Applicants' Remarks, filed on 2/26/2009, with respect to claims 44-83 and 85 have been fully considered and are persuasive. The rejection of claims 44-83 and 85 has been withdrawn after Applicants amended claim.

Reasons for Allowance

The following is an examiner's statement of reasons for allowance:

5. The instant application is directed to a method / system of communicating diagnostic information over a communication channel using multi-carrier modulation in a multi-carrier modulation. Each independent claim identifies uniquely distinct features "transmitting from the multi-carrier modulation transceiver a diagnostic message using multi-carrier modulation wherein the diagnostic message comprises a plurality of data variables representing diagnostic information about the communication channel and each bit in the diagnostic message is mapped to at least one DMT symbol, and wherein one variable comprises an array representing frequency domain received idle channel noise information".

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Art Unit: 2611

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Long et al. U.S. Patent 6,725,176 B1.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to KHANH C. TRAN whose telephone number is (571)272-3007. The examiner can normally be reached on Monday - Friday from 08:00 AM - 05:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Shuwang Liu can be reached on 571-272-3036. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2611

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

KCT

/KHANH C. TRAN/ Primary Examiner, Art Unit 2611